

Abstract of the Disclosure

[0055] Digital signaling processing (DSP) circuitry that supports multiple channel or time division  
5 multiplexing (TDM) applications is provided. For example, the DSP circuitry can process one or more channels of data without mixing the data of one channel with data of another channel. DSP circuitry of the invention supports multiple channel or TDM applications  
10 by embedding a tap delay line structure within the DSP circuitry. Utilizing this embedded tap delay line structure enables the DSP circuitry to support multi-channel or TDM applications independent of any external circuitry such as logic resources, thereby freeing up  
15 those resources for other uses.